## **CLAIMS**

What is claimed is:

1	1. A method of coating a substrate, comprising:
2	providing a substrate having a surface;
3	forming a polymeric layer on the surface of the substrate by applying
4	a layer of a polymeric precursor to at least a portion of the surface;
5	polymerizing the polymeric precursor to form a polymerized layer; and
6	applying a metal coating to at least a portion of the polymerized layer;
7	wherein the metal coating is applied under sub-atmospheric conditions.
1	2. The method of claim 1, wherein the step of applying the layer of the
2	polymeric precursor is performed using an electrophoresis process.
1	3. The method of claim 2, wherein the step of forming the polymerized
2	layer includes elevating the temperature of the polymeric precursor to a temperature
3	of at least about 320°F.
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1	4. The method of claim 2, wherein the polymeric precursor is selected
2	from the group consisting of acrylics, epoxies, urethanes, and combinations thereof.
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1	5. The method of claim 1, wherein the substrate is porous, and further
2	comprising leveling the surface of the substrate before the step of applying the metal
(d)	coating.
1\	6. The method of claim 5, wherein the metal coating is applied using a
2	physical vapor deposition method.

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1	7. The method of claim 6, further comprising the step of removing	g a
2	portion of the polymerized layer before applying the metallic coating.	
1	8. The method of claim 7, further comprising cleaning at least t	he
2	polymerized layer before the step of removing a portion of the polymerized layer.	
1	9. The method of claim 6, wherein the metal coating is applied in	ıa
2	pressure range of about 5x10 <sup>-4</sup> millitorr to about 2x10 <sup>-5</sup> millitorr.	
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1	10. The method of claim 6, wherein the metal coating is applied	by
2	evaporation.	
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7	11. The method of claim 3, further comprising maintaining the polymer	ric
2 /	precursor at the temperature for at least about 12 minutes.	
1 1	12. A method of coating a surface, comprising:	
2	providing a substrate;	
3	coating at least a portion of the substrate with a layer of	an
4	electrophoretically applied polymeric precursor;	
5	polymerizing the polymeric precursor to form a first polymeric coating	ıg;
6	and /	
7	elevating the temperature of the polymeric coating to at least abo	ut
8	400°F for at least about 6 minutes.	
1	13. The method of claim 12, further comprising applying a layer of method 12	tal
2	over at least a portion of the polymeric coating.	
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1	14. The method of claim 13, further comprising applying a second	nd
2	polymeric coating over the layer of metal.	

1	15. A method comprising:
2	forming a polymeric coating from an electrophoretically applied
3	polymeric precursor and applying a layer of metal over the polymeric coating using
4	a physical vapor deposition process.
1	16. An article having a porous surface, comprising:
2	an electrophoretically applied first polymeric layer overlaying and in
3	direct contact with the porous surface; and
4	a metallic layer overlaying the first polymeric layer.
1	17. The article of claim 16, further comprising:
2	a second electrophoretically applied polymeric layer overlaying and in
3	direct contact with the metallic layer.
1	18. The article of claim 16, wherein the article is selected from the group
2	consisting of plumbing fixtures, jewelry, and utensils.
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1	19. The article of claim 17, wherein the article is selected from the group
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2	consisting of plumbing fixtures, jewelry, and utensils.
1	The article of claim 16, wherein the polymeric layer is a dielectric
2	layer.
1	21. The article of claim 16, wherein the metallic layer is chrome.
1	22. The article of claim 16, wherein the first polymeric layer has a
2	thickness ranging from about 1 millimeter to about 40 millimeters.

1	23. The article of claim 16, wherein the metal layer has a thickness ranging
2	from about 0.1 millimeter to about 3 millimeters.
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1	24. The article of claim 23, wherein the second polymeric layer has a
2	thickness ranging from about 1 millimeter to about 40 millimeters.

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